

What is claimed is:

1. A method for improving a biodegradable resin material in elastic modulus, wherein said material is
5 comprised mainly of a biodegradable resin,
said method comprising a step of irradiating said biodegradable resin material with a microwave.

2. A method for improving a biodegradable resin
10 material in elastic modulus, wherein said material is comprised mainly of a biodegradable resin, said method comprising the steps of:
injecting said biodegradable resin material into a mold to form an injection-molded product, and
15 irradiating said biodegradable resin material in the form of the injection-molded product in said mold with a microwave.

3. The method according to claim 1, wherein said
20 biodegradable resin material is irradiated with a microwave is 1 to 10 minutes.

4. The method according to claim 2, wherein said biodegradable resin material is irradiated with a
25 microwave is 1 to 10 minutes.

5. The method according to claim 1, wherein said biodegradable resin is an aliphatic polyester resin.

30 6. The method according to claim 2, wherein said biodegradable resin is an aliphatic polyester resin.

7. The method according to claim 5, wherein said aliphatic polyester resin is polylactic acid.

5 8. The method according to claim 6, wherein said aliphatic polyester resin is polylactic acid.

9. The method according to claim 1, wherein said biodegradable resin material contains an additive for
10 suppressing hydrolysis.

10. The method according to claim 2, wherein said biodegradable resin material contains an additive for
15 suppressing hydrolysis.

11. The method according to claim 9, wherein said additive for suppressing hydrolysis is a carbodiimide
compound.

20 12. The method according to claim 10, wherein said additive for suppressing hydrolysis is a carbodiimide
compound.

13. The method according to claim 9, wherein said
25 additive for suppressing hydrolysis is present in an amount of 0.1 to 2.0 % by weight, with regard to the weight of said aliphatic polyester resin.

14. The method according to claim 10, wherein said
30 additive for suppressing hydrolysis is present in an amount of 0.1 to 2.0 % by weight, with regard to the

weight of said aliphatic polyester resin.

15. The method according to claim 1, wherein said biodegradable resin material contains mica.

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16. The method according to claim 2, wherein said biodegradable resin material contains mica.

17. The method according to claim 15, wherein said mica
10 is synthetic mica.

18. The method according to claim 16, wherein said mica is synthetic mica.

15 19. The method according to claim 17, wherein said synthetic mica is present in an amount of 0.5 to 20.0 % by weight, with regard to the weight of said biodegradable resin.

20 20. The method according to claim 18, wherein said synthetic mica is present in an amount of 0.5 to 20.0 % by weight, with regard to the weight of said biodegradable resin.

25 21. The method according to claim 15, wherein said mica is natural mica.

22. The method according to claim 16, wherein said mica is natural mica.

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23. The method according to claim 21, wherein said

natural mica is present in an amount of 5.0 to 20.0 % by weight, with regard to the weight of said biodegradable resin.

5 24. The method according to claim 22, wherein said natural mica is present in an amount of 5.0 to 20.0 % by weight, with regard to the weight of said biodegradable resin.

10 25. A biodegradable resin composition comprising a biodegradable resin and natural mica.

26. The biodegradable resin composition according to claim 25, wherein said natural mica is agglomerated mica
15 obtained by granulation using one of an acrylic resin, an epoxy resin, and a urethane resin as a binder.

27. The biodegradable resin composition according to claim 25, which contains 5.0 to 30.0 % by weight of said
20 natural mica.

28. The biodegradable resin composition according to claim 25, wherein said natural mica has an average particle diameter of 15 to 140 μm .

25 29. The biodegradable resin composition according to claim 25, wherein said biodegradable resin is an aliphatic polyester resin.

30 30. The biodegradable resin composition according to claim 29, wherein said aliphatic polyester resin is

polylactic acid.

31. The biodegradable resin composition according to
claim 25, further comprising an additive for suppressing
5 hydrolysis of said biodegradable resin.

32. The biodegradable resin composition according to
claim 31, wherein said additive for suppressing
hydrolysis of said biodegradable resin is a carbodiimide
10 compound.

33. The biodegradable resin composition according to
claim 31, wherein said additive for suppressing
hydrolysis of said biodegradable resin is present in an
15 amount of 0.1 to 2.0 % by weight, with regard to the
weight of said aliphatic polyester resin.

34. A housing material comprising a biodegradable resin
composition which comprises a biodegradable resin and
20 natural mica.

35. The housing material according to claim 34, wherein
said biodegradable resin composition further comprises an
additive for suppressing hydrolysis of said biodegradable
25 resin.

36. A method for improving a biodegradable resin
material in elastic modulus, wherein said material is
comprised mainly of a biodegradable resin,
30 said method comprising a step of adding natural mica
to said biodegradable resin material.

37. The method according to claim 36, wherein the addition of said natural mica is conducted by kneading together at 150 to 200°C said biodegradable resin material and said natural mica in an amount of 10.0 to 30.0 % by weight, with regard to the weight of said biodegradable resin material.

38. A biodegradable resin composition comprising synthetic mica as a crystal nucleating agent and an aliphatic polyester resin.

39. The biodegradable resin composition according to claim 38, wherein said synthetic mica is present in an amount of 0.5 to 20.0 % by weight, with regard to the weight of said aliphatic polyester resin.

40. The biodegradable resin composition according to claim 38, wherein said aliphatic polyester resin is polylactic acid.

41. The biodegradable resin composition according to claim 38, wherein said synthetic mica is non-swellable synthetic mica.

42. The biodegradable resin composition according to claim 38, wherein said synthetic mica has an average particle diameter of 1 to 10 μm .

43. The biodegradable resin composition according to claim 38, further comprising an additive for suppressing

hydrolysis of said biodegradable resin.

44. The biodegradable resin composition according to claim 43, wherein said additive for suppressing
5 hydrolysis of said biodegradable resin is a carbodiimide compound.

45. The biodegradable resin composition according to claim 43, wherein said additive for suppressing
10 hydrolysis of said biodegradable resin is present in an amount of 0.1 to 2.0 % by weight, with regard to the weight of said aliphatic polyester resin.

46. The biodegradable resin composition according to
15 claim 38, further comprising natural mica.

47. The biodegradable resin composition according to claim 46, wherein said natural mica is present in an amount of 5.0 to 20.0 % by weight, with regard to the
20 weight of said aliphatic polyester resin.

48. A housing material comprising a biodegradable resin composition which comprises synthetic mica as a crystal nucleating agent and an aliphatic polyester resin.
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49. A method for producing a biodegradable resin composition, said method comprising kneading together at 150 to 200°C an aliphatic polyester resin and synthetic mica in an amount of 0.5 to 20.0 % by weight, with regard
30 to the weight of said aliphatic polyester resin.

50. A method for improving a biodegradable resin composition in elastic modulus, wherein said composition comprises synthetic mica as a crystal nucleating agent and an aliphatic polyester resin,

5 said method comprising a step of allowing said biodegradable resin composition to stand for 30 to 180 seconds while heating at 80 to 130°C.

51. A method for improving a biodegradable resin composition in elastic modulus, wherein said composition comprises synthetic mica as a crystal nucleating agent and an aliphatic polyester resin, said method comprising the steps of:

10 injecting said biodegradable resin composition into a mold to form an injection-molded product, and

15 heating said injection-molded product in said mold at 80 to 130°C for 30 to 180 seconds.

52. A method for improving a biodegradable resin composition in elastic modulus, wherein said composition comprises synthetic mica as a crystal nucleating agent and an aliphatic polyester resin, said method comprising the steps of:

20 injecting said biodegradable resin composition into a mold whose inner surface is heated by radio frequency induction heating to form an injection-molded product, and

25 heating said injection-molded product in said mold at 80 to 130°C for 30 to 180 seconds.

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53. A biodegradable resin composition comprising an

aliphatic polyester resin, an organic nucleating agent,
and natural mica.

54. The biodegradable resin composition according to
5 claim 53, wherein said organic nucleating agent is at
least one compound selected from the group consisting of
an aliphatic carboxylic acid amide and an aliphatic
carboxylic acid ester.

10 55. The biodegradable resin composition according to
claim 53, wherein said natural mica is present in an
amount of 5.0 to 20.0 % by weight, with regard to the
weight of said aliphatic polyester resin.

15 56. The biodegradable resin composition according to
claim 53, wherein said organic nucleating agent is
present in an amount of 0.5 to 5.0 % by weight, with
regard to the weight of said aliphatic polyester resin.

20 57. The biodegradable resin composition according to
claim 53, wherein said aliphatic polyester resin is
polylactic acid.

58. The biodegradable resin composition according to
25 claim 53, further comprising an additive for suppressing
hydrolysis.

59. The biodegradable resin composition according to
claim 58, wherein said additive for suppressing
30 hydrolysis is a carbodiimide compound.

60. The biodegradable resin composition according to claim 58, wherein said additive for suppressing hydrolysis is present in an amount of 0.1 to 2.0 % by weight, with regard to the weight of said aliphatic polyester resin.

61. A housing material comprising a biodegradable resin composition which comprises an aliphatic polyester resin, an organic nucleating agent, and natural mica.

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62. A method for producing a biodegradable resin composition, said method comprising kneading together at 150 to 200°C an aliphatic polyester resin, natural mica in an amount of 5.0 to 20.0 % by weight, based on the weight of said aliphatic polyester resin, and an organic nucleating agent.

63. A method for improving a biodegradable resin composition in elastic modulus, wherein said composition comprises an aliphatic polyester resin, an organic nucleating agent, and natural mica,

said method comprising a step of allowing said biodegradable resin composition to stand for 30 to 180 seconds while heating at 80 to 130°C.

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64. A method for improving a biodegradable resin composition in elastic modulus, wherein said composition comprises an aliphatic polyester resin, an organic nucleating agent, and natural mica,

said method comprising the steps of:
injecting said biodegradable resin composition into

a mold to form an injection-molded product, and

heating said injection-molded product in said mold
at 80 to 130°C for 30 to 180 seconds.

- 5 65. A method for improving a biodegradable resin
composition in elastic modulus, wherein said composition
comprises an aliphatic polyester resin, an organic
nucleating agent, and natural mica,

said method comprising the steps of:

- 10 injecting said biodegradable resin composition into
a mold whose inner surface is heated by radio frequency
induction heating to form an injection-molded product,
and

- 15 heating said injection-molded product in said mold
at 80 to 130°C for 30 to 180 seconds.